DOOSAN	Document Transmittal Upper Trishuli-1 HEP (216MW)	Date 2022-07-24	DT No.: UT1-HEP-DHI-PC-D-0046	SHEET 1 OF 1
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S. N.	REVIEW NOTE NO.	REVIEW STATUS	DWG./DOC. NO.	REV.	DWG. TITLE / DOC. DESCRIPTION	REMARK
1	RN-0190	RR	UT1-C-150-CVL-DC-54001	OB	Stability Calculation for the Surrounding Rock of Headrace Tunnel	
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Received by :

Date :

Legend of Submit Status
A : APPROVED
AN : APPROVED AS NOTED
RR : RETURN FOR
FI : FOR INFORMATION

DHI STAMP

Doosan Enerbility Co., Ltd. Branch Office Nepal
DOOSAN Enerbility

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Discipline : Civil

UPPER TRISHULI-1 HEP (216MW)			
Client	**Nepal Water and Energy Development Company Private Limited**		
Owner's Engineer	**Tractebel Engineering GmbH / Jade Consult**		

REVIEW NOTE

Contractor	**Doosan Enerbility**		
Title of the Document	Stability Calculations for the Surrounding Rock of Headrace Tunnel		
Document No.	UT1-C-150-CVL-DC-54001	Revision	0B
Date of Documents	06.07.2022	Received Date	06.07.2022
Transmittal Form No.	UT1-HEP-DHI-D-0290		
Previous Review Date/Status	07.06.2022/AN	Prev. Review Note No.	RN-0135
Review Note No.	**RN-0190**	**Present Review Date**	**21.07.2022**
		Present Review Status	**RR**

A: Approved AN: Approved as Noted RR: Returned for Resubmission FI: For Information, only

General Comments

From RN-0135 (Status: AN) it is quoted:

"The calculation report in hand addresses the constructability of the Headrace Tunnel with the shown geometry and support, only. It is not a calculation report that can serve as a design document for a low-pressure water tunnel. There are no considerations done regarding the design of a waterway that is from time to time dewatered.

Therefore, any approval given refers to the constructability and stability of the underground structure as such, but it does not refer to the design of this tunnel serving as waterway in the UT-1 Project. It is the solely responsibility of the Contractor to proof, with an appropriate design, that this underground structure with the suggested geometry and support can serve as waterway in the project." (unquote)

These clear statements of the reviewer require an appropriate response, namely the design of the Headrace Tunnel as a waterway considering – in detail - respective load cases during commissioning and operation of the power plant.

As such requirements were not addressed at all with the submitted calculation report, this report is returned for resubmission (Status: RR).

DISCLAIMER

Any approval will not release the Contractor from any of his obligations under the Contract.

Dr. U. Glawe